

NOVEMBER/DECEMBER 2023

**GCA32/DCA32 — UNIX AND SHELL
PROGRAMMING**

Time: Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Mention the purpose of 'cat' command.
2. How to create a File?
3. Specify the use of 'cal' command.
4. What is the purpose of 'ps' command?
5. What is Shell Variable?
6. What are Command-line arguments?
7. Define the term – Shell.
8. Write the syntax of 'until' loop statement.
9. What are System calls?
10. Mention the purpose of 'exec()' function.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Describe the method of Listing files and directories.

Or

- (b) Discuss on the method of adding, removing Users, and Daily system administration.

12. (a) Explain the method of Viewing Files and taking Printouts.

Or

- (b) Describe about Background process, 'nohup' command, and 'kill' command.

13. (a) Discuss on the syntax of 'if-then-fi' and 'if-then-else-fi' statements.

Or

- (b) Explain the purpose of 'test' command and use of logical operators.

14. (a) Describe the syntax of 'while' loop and 'for' loop statements using example.

Or

- (b) Discuss on the method of writing Shell script using Command line arguments.

15. (a) Explain the File structure related calls.

Or

- (b) Describe about Interprocess communication calls and the use of 'pipe()' function.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the salient features of Unix.

17. Discuss on I/O redirection and Piping.

18. Describe the method of displaying Date in desired format, using Shift on Positional parameters, and Arithmetic in Shell script.

19. Explain the method of creating Nested Directories, generating Values for a 'for' loop, and 'break', 'continue' statements.

20. Discuss on Process related calls and the purpose of different functions.